Appl. No. 08/936,344 Amdt. Dated 12-28-2005 Reply to Office action of 9-15-2005

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (canceled)
- 2. (previously presented) The method of claim 3, further comprising selecting said memory banks for access by one of the first and second processors.
- 3. (previously presented) A method for allocating real-time audio data from a plurality of audio channels in a system having a first processor and a second processor, the method comprising:

providing a plurality of memory banks of semiconductor memory devices, each memory bank being accessible to the first and second processors for operations selected from the group comprising read and write operations; and

storing subsets of said audio data in the plurality of memory banks, the subsets corresponding to different groups of audio channels.

- 4. (original)The method of claim 3 wherein one subset of said audio data corresponds to even-numbered audio channels and one other subset of said audio data corresponds to odd-numbered audio channels.
  - 5. (canceled)
- 6. (previously presented) A system having first and second buses for processing real-time audio data from a plurality of audio channels, the system comprising:
- a first processor and a second processor coupled to said first and second busses, respectively;
- a plurality of memory banks of semiconductor memory devices coupled to said first and second buses for storing said audio data, said plurality of memory banks being accessible to the

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first and second processors for operations selected from the group comprising read and write operations, said plurality of memory banks storing subsets of audio data, said subsets corresponding to different groups of audio channels; and

a plurality of selectors coupled said first and second buses to select said memory banks for access by one of said first and second processors.

- (previously presented) The system of claim 6 wherein the plurality of selectors include a plurality of address multiplexers and data transceivers.
- 8. (previously presented) The system of claim 6 wherein one subset of said audio data corresponds to even-numbered audio channels and one other subset of said audio data corresponds to odd-numbered audio channels.
- 9. (previously presented) The system of claim 6, wherein the memory banks include dynamic random access memories.
- 10. (previously presented) The method of claim 3, wherein storing further comprises interleaving the subsets of data.
- 11. (previously presented) The system of claim 6, wherein the subsets are stored in the memory banks in an interleaving manner.
- 12. (previously presented) The method of claim 3, wherein storing comprises storing one of the subsets of audio data in one of the memory banks, said method further comprising reading stored audio data from a second of the memory banks.
- 13. (previously presented) The method of claim 3, wherein the first processor performs a read operation on a first memory bank of the plurality of memory banks and the second processor performs a write operation on a second memory bank of the plurality of memory banks.

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- 14. (previously presented) The system of claim 6, wherein subsets of audio data are stored in one of the memory banks and stored audio data is read from a second memory bank of the memory banks.
- 15. (previously presented) The system of claim 6, wherein the first processor performs a read operation on a first memory bank of the plurality of memory banks and the second processor performs a write operation on a second memory bank of the plurality of memory banks.